U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

MATERIAL SAFETY DATA SHEET

RECEIVED
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OHIO EPA-N.E.D.O.

Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME	EMERGENCY TELEPHONE NO.
Emery Industries, Inc.	(513) 641-7000
ADDRESS (Number, Street, City, State, and ZIP Code) 4900 Este Avenue, Cincinnati, OH 45232	
CHEMICAL NAME AND SYNONYMS: Tall Oil Pitch	TRADE NAME AND SYNONYMS: Emtall 786
CHEMICAL FAMILY: Tall Oil	FORMULA: R-Cooh

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)
Emtall 786 is not known to be toxic or hazardous from past		
experience. However, no specific toxicity testing has been		
undertaken on this material.		

SECTION III - PHYSICAL DATA

BOILING POINT (°F.) Approximately	675°C	SPECIFIC GRAVITY (H_2O=1) 0.915 at	300°F
VAPOR PRESSURE (mm Hg.)		PERCENT, VOLATILE BY VOLUME (%)	0%
VAPOR DENSITY (AIR=1) Not volatile below	200°C	EVAPORATION RATE (_____ =1) Material is nonvolatile	
SOLUBILITY IN WATER Negligible			
APPEARANCE AND ODOR Dark semi-solid material with rather strong odor.			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) 495°F (COC)	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA: Foam, carbon dioxide, or dry chemicals			
SPECIAL FIRE FIGHTING PROCEDURES: NONE			
UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE			

(Continued on reverse side)

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	Not applicable
EFFECTS OF OVEREXPOSURE	Not known, but probably minimal

EMERGENCY AND FIRST AID PROCEDURES

Emtall 786 is thought to be relatively non-toxic. However, no specif oral toxicity studies have been made on this material. It can, however, be removed from the skin by washing with soap and water.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	XXXX	

INCOMPATABILITY *(Materials to avoid)* Do not expose to the action of strong oxidize

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	XXX	

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Depending upon the conditions of the spill, the material may possibly be cleaned up by conversion to the water soluble soap by addition of sodium carbonate or other alkali, The Saop may then be flushed or hosed.

WASTE DISPOSAL METHOD

Fatty acids and rosin soaps are generally regarded as biodegradable. However, the "straight" fatty acids should not be discharged in a water medius as they are insoluble and form an oil or scum layer on top of the water.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION *(Specify type)* None required

VENTILATION	LOCAL EXHAUST Material is non-volatile below 200°C	SPECIAL
	MECHANICAL *(General)*	OTHER

PROTECTIVE GLOVES None required	EYE PROTECTION None required

OTHER PROTECTIVE EQUIPMENT None required

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Do not store near excessive heat or open flame and keep in closed or covered containe

OTHER PRECAUTIONS